

What is claimed is:

1. A load test machine comprising:

a base block,

5 at least a pair of posts rising from the base block,

a cross head spanning between the pair of posts, and

an actuator mounted on the base block or the cross head, the actuator being able to apply a load on a test piece positioned between the cross head and the base block,

10 wherein the cross head is secured to each of the posts via an elastic member, and the elastic member is constructed to be changeable in its jointing position with the cross head or with each of the posts to change a resonance frequency of the test machine.

15 2. The load test machine as recited in claim 1 wherein the cross head is a solid block.

3. A load test machine comprising:

20 a base block,

at least a pair of posts rising from the base block,

a cross head spanning between the pair of posts, and

an actuator mounted on the base block or the cross head, the actuator being able to apply a load on a test piece positioned
25 between the cross head and the base block,

wherein the cross head is secured to each of the posts via

an elastic member made of a metal such that the elastic member is jointed to a top of each of the posts to extend laterally from the post to define an arm while the cross head is jointed to the arm of the elastic member, the elastic member being changeable in its jointing position with the cross head.

4. The load test machine as recited in claim 3 wherein the arm of the elastic member is progressively reduced in its cross section.

5. The load test machine as recited in claim 4 wherein the arm of the elastic member is progressively reduced in its depth.

6. The load test machine as recited in any one of claims 3 to 5 wherein the cross head is a solid block.

7. A load test machine comprising:

a base block,

at least a pair of posts rising from the base block,

a cross head spanning between the pair of posts, and

an actuator mounted on the base block or the cross head, the actuator being able to apply a load on a test piece positioned between the cross head and the base block,

wherein the cross head is secured to each of the posts via an elastic member made of a metal such that the elastic member is jointed to a top of each of the posts to extend laterally from

the post to define an arm while the cross head is jointed to the arm of the elastic member via a seat piece, the seat piece being changeable in its jointing position with the cross head.

5 8. The load test machine as recited in claim 7 wherein the arm of the elastic member is progressively reduced in its cross section.

10 9. The load test machine as recited in claim 8 wherein the arm of the elastic member is progressively reduced in its depth.

10. The load test machine as recited in any one of claims 7 to 9 wherein the cross head is a solid block.

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